

ABSTRACT

A person who is elderly, requires care, or an inpatient is under the care by his or her family members, a nursing care worker, or a nurse in a hospital or medical institution who must pay constant attention to the condition of their patient or elderly person but cannot be in attendance all the time. A biosignal intensity measuring method is provided to solve the above problem. According to the measuring method, output signals from a noninvasive sensor, which detects biosignals from a lying subject, are amplified and noises other than the biosignals are attenuated via a signal amplifying/shaping unit, and the amplified signals are controlled by an automatic gain control (AGC) unit to have sizes within a prescribed range, then parameters acquired by signal gains in a control circuit upon carrying out automatic gain control are output as the output signal intensity of the biosignals to calculate biosignal intensity. A bedding state monitoring method is also provided. According to the monitoring method, the calculated signal intensity is used to monitor the bedding state of the subject, such as a state of being in or out of bed, of weakening or stoppage of biosignals, of making body motion, or the like.